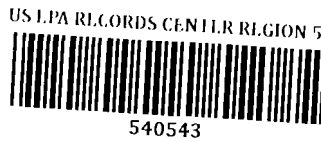




**CONESTOGA-ROVERS
& ASSOCIATES**



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December 16, 2011

Reference No. 006029-50

Mr. Regan S. Williams
State Project Coordinator
Ohio EPA
Division of Emergency & Remedial Response
2110 East Aurora Road
Twinsburg, Ohio 44087

Dear Mr. Williams:

Re: 2011 Annual Sediment Sample Results
Summit National Superfund Site
Deerfield, Ohio

In accordance with the Consent Decree and Statement of Work (SOW) requirements for the Summit National Superfund Site (Site) in Deerfield, Ohio, the Summit National Facility Trust (SNFT) herewith submits two copies of the sediment sample analytical results for the 2011 annual sediment sample obtained from the confluence of the south and east drainage ditches at the Site on August 28, 2011. As noted in the April 2011 groundwater monitoring report (CRA, August 31, 2011), due to nearly 4 feet of standing water at the sampling location on April 29, 2011, the sediment sample was not collected in April 2011.

Table 1 contains a summary of the analytical results of the detected compounds in the sediment sample collected on August 28, 2011. **Table 1** also includes the June 2011 United States Environmental Protection Agency (USEPA) Regional Screening Levels for Residential and Industrial soil for Chemical Contaminants at Superfund Sites, as well as the mean background soil concentrations from the Record of Decision (USEPA, June 30, 1998). CRA's data quality assessment for the August 2011 analyses is included in **Attachment A**.

All compounds detected in the sediment sample were detected at concentrations below the USEPA Screening Level for Industrial Soil. Except for benzo(a) pyrene, all compounds detected in the sediment sample were also detected at concentrations below the USEPA Screening Level for Residential Soil. The 2011 concentration of benzo(a) pyrene is within the range of detected concentrations in the sediment samples within the last 10 years, and is below the mean background soil concentration identified in the Record of Decision.

Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

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Yours truly,

CONESTOGA-ROVERS & ASSOCIATES, INC.

Steve Whillier

SW/rrw/Will-070

Encl.

cc: Pablo Valentin, USEPA (2 hardcopies, 1 e-copy)
Robert Casselberry, SNFT (1 hardcopy, 1 e-copy)
Jeff Sussman, SNFT (1 hardcopy, 1 e-copy)
Joe Montello, SNFT (1 hardcopy, 1 e-copy)
Douglas G. Haynam, Shumaker, Loop & Kendrick, LLP (e-copy)
Jack Michels, CRA (e-copy)
Nick Schapman, CRA (e-copy)

TABLE 1

DETECTED COMPOUNDS
AUGUST 2011 SEDIMENT SAMPLE
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

Sample Location	Screening Levels ¹		Mean Background Soil Concentration ² (µg/kg)	S&E Ditches Sediment	
Sample ID	Resident	Industrial		SED-6029-082811-001	SED-6029-082811-002
Sample Date	Soil	Soil		8/28/2011	8/28/2011
Parameters	(µg/kg)	(µg/kg)			Duplicate
Volatile Organic Compounds					
Chloroform (Trichloromethane)	290	1,500	ND	1.7	1.2
Trichloroethene	2,800	14,000	ND	ND (12)	1.5
Semivolatile Organic Compounds					
2-Methylnaphthalene	310,000	4,100,000	972	233	224
Benzo(a)anthracene	150	2,100	222	47.4	38.5
Benzo(a)pyrene	15	210	161	41.9	34.1
Benzo(b)fluoranthene	150	2,100	351	41.6	57.3
Benzo(g,h,i)perylene	NV	NV	65	59.9	66.6
Benzo(k)fluoranthene	1,500	21,000	351	43.1	21.2
Chrysene	15,000	210,000	268	62.0	56.0
Dibenzofuran	78,000	1,000,000	212	55.7	52.3
Dimethyl phthalate	NV	NV	ND	57.0	60.6
Fluoranthene	2,300,000	22,000,000	353	65.9	61.9
Fluorene	2,300,000	22,000,000	9	20.7	ND (53)
Indeno(1,2,3-cd)pyrene	150	2,100	68	34.3	32.6
Naphthalene	3,600	18,000	859	289	208
Phenanthrene	NV	NV	725	167	162
Pyrene	1,700,000	17,000,000	331	90.4	85.6
PCBs					
Aroclor-1260 (PCB-1260)	220	740	ND	79.1	ND (55)
Pesticides					
Endrin aldehyde	NV	NV	ND	ND (1.2)	2.7
General Chemistry					
Total solids (%)	NA	NA	—	50.2	53.5

Notes

¹Per the USEPA Regional Screening Level (RSL) Summary Table (June 2011)²Per Table 3-3 of the Record of Decision (USEPA, June 30, 1988)

µg/kg = micrograms per kilogram

PCBs = Polychlorinated Biphenyls

NV = No Value

NA = Not Applicable

ND = Not Detected

ND () = Not Detected at or above the value in parentheses




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MEMORANDUM

TO: Steve Whillier

FROM: Julie Czech/JC/50 

C.C.: Paul Swangler

RE: Data Quality Assessment and Validation
August 2011 Sediment Sampling
Summit National Superfund Site
Deerfield Township, Portage County, Ohio

REF. NO.: 006029-50

DATE: October 13, 2011

The following summarizes the results of the data quality assessment and validation conducted for the sediment samples collected during August 2011 at the Summit National Superfund Site in Deerfield Township, Portage County, Ohio (Site). The samples identified in Table 1 were analyzed for the parameters listed on Table 2 by Accutest Laboratories, Inc. of Dayton, New Jersey. The data quality evaluation criteria were established by the Site-specific quality assurance project plan (QAPP).¹

Sample Receipt and Holding Time Period Compliance

All samples were received by the laboratory intact, properly preserved, within the proper temperature range, and with the required chain-of-custody documentation. The samples were prepared and analyzed within the holding time periods specified in the QAPP.

Method Blank Sample Data

Method blank sample data were evaluated to verify that analytes detected in investigative samples were not attributable to laboratory conditions or procedures. Target analytes were not detected in the method blank samples.

Surrogate Compounds Data

Method performance on individual samples was evaluated by the percent recovery data from surrogate compounds spiked into each sample prior to preparation and analysis. The surrogate compounds percent recovery acceptance criteria were achieved for the samples.

¹Application of data quality evaluation criteria was consistent with the relevant criteria in "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999.

Blank Spike Sample Analyses

Analytical accuracy was evaluated by the percent recovery data from blank spike sample analyses. The blank spike percent recovery data were acceptable for all analytes.

Matrix Spike/Matrix Spike Duplicate Sample Analyses

Accuracy and precision relative to the sample matrices were evaluated by percent recovery and RPD data from matrix spike/matrix spike duplicate (MS/MSD) sample analyses. The chloroform RPD data for sample SED-6029-082811-001 failed to achieve the acceptance criteria and should be qualified as estimated (J). The remaining percent recovery and RPD data were acceptable for project-related MS/MSD samples or investigative sample data associated with outlying MS/MSD data did not require qualification.

Sample Quantitation

VOC and SVOC results reported at concentrations less than their sample-specific reporting limits but greater than or equal to their respective method detection limits were flagged by the laboratory with the "J" qualifier. Results flagged as such are estimated concentrations, and the data validation "J" qualifier was applied to these results during the data validation process.

Completeness

The objective for completeness, which is defined in the QAPP as the total number of usable sample results versus the total possible number of sample results, was required to be at least 95%. All investigative sample results were usable, and the completeness objective was attained.

Overall Assessment

The data are suitable for their intended purpose with the qualifications presented herein.

TABLE 1

SAMPLE IDENTIFICATION AND LOCATION SUMMARY
AUGUST 2011 SEDIMENT SAMPLING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP, PORTAGE COUNTY, OHIO

<i>Sample ID</i>	<i>Location</i>
SED-6029-082811-001	S&E Ditches Sediment
SED-6029-082811-002	S&E Ditches Sediment

TABLE 2

SUMMARY OF ANALYTICAL METHODS
AUGUST 2011 SEDIMENT SAMPLING EVENT
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP, PORTAGE COUNTY, OHIO

<i>Parameter</i>	<i>Analytical Method</i> ¹
Volatile Organic Compounds (VOCs)	SW-846 8260B
Semivolatile Organic Compounds (SVOCs)	SW-846 8270D
Pesticides	SW-846 8081B
Polychlorinated Biphenyls (PCBs)	SW-846 8082A

¹ Method references:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd Edition with Updates I through IIIB.